

### United States Patent and Trademark Office

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# NOTICE OF ALLOWANCE AND FEE(S) DUE

21839

7590

07/08/2003

BURNS DOANE SWECKER & MATHIS L L P POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404 EXAMINER
TIBBITS, PIA FLORENCE

ART UNIT

361-093100

2838

DATE MAILED: 07/08/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,800	12/13/2001	Ralf Strumpler	004501-631	1087

TITLE OF INVENTION: ELECTRICAL CIRCUIT BREAKER FOR PROTECTING AGAINST OVERCURRENTS

Æ	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1300	\$0	\$1300	10/08/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. Sec 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

**Commissioner for Patents** Alexandria, Virginia 22313-1450

Fax (703)746-4000

maintenance fee notification	below or directed otherwis	e in Block 1, by (a) spec	niying a new con	espondence add	required). Blocks 1 through 4 sees will be mailed to the currenters; and/or (b) indicating a sep	parate "FEE ADDRESS" for	
21839 75	90 07:08/2003 SWECKER & MA			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
POST OFFICE BO ALEXANDRIA, V				United States Po envelope addres:	Certificate of Mailing or Tran that this Fee(s) Transmittal is stal Service with sufficient posta sed to the Box Issue Fee address e USPTO, on the date indicated by	being deposited with the age for first class mail in an s above, or being facsimile	
						(Depositor's name)	
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						(Date)	
APPLICATION NO.	FILING DATE	FIRST	NAMED INVENTO	)R	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/009,800	12/13/2001	<u>.                                  </u>	Ralf Strumpler		004501-631	1087	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLIC	ATION FEE	TOTAL FEE(S) DUE	DATE DUE	
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TIBBITS, PIA F		2838	361-093100				
Address form PTO/SB/12  "Fee Address" indicatic PTO/SB/47; Rev 03-02 of Number is required.  3. ASSIGNEE NAME AND PLEASE NOTE: Unless as been previously submitted (A) NAME OF ASSIGNEE	on (or "Fee Address" Indicator more recent) attached. Under the RESIDENCE DATA TO an assignee is identified below the USPTO or is being second	Correspondence ation form se of a Customer  BE PRINTED ON THE P ow, no assignee data will ubmitted under separate c (B) RES	appear on the pa over. Completion IDENCE: (CITY :	ternatively, (2) ng as a memb c) and the nam attorneys or age will be printed.  ype) ent. Inclusion of of this form is N	the name of a cr a registered es of up to 2 nts. If no name 3	te when an assignment has gnment.	
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(Authorized Signature)		(Date)					
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec. This collection of informat obtain or retain a benefit if application. Confidentiality estimated to take 12 minut completed application for case. Any comments on	a registered attorney or agords of the United States Fitton is required by 37 CF, to the public which is to its governed by 35 U.S.C. es to complete, including and to the USPTO. Time we the amount of time you	gent; or the assignee or fatent and Trademark Offi R 1.311. The information file (and by the USPTO 122 and 37 CFR 1.14. The gathering, preparing, and ill vary depending upon require to complete this	is required to to process) an is collection is submitting the the individual is form and/or				
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## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO BOX 149 Alexandra, Vignua 22M3-1450 www.uspto.gov

APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/009,800	12/13	3/2001	Ralf Strumpler	rumpler 004501-631 108			
21839	7590	07/08/2003		EXAMINER			
BURNS DOAT		ER & MATHIS L	TIBBITS, PIA F	LORENCE			
ALEXANDRIA		404		ART UNIT	PAPER NUMBER		
				2838			
			DATE MAILED: 07/08/2003				

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 145 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 145 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



## United States Patent and Trademark Office

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APPLICATION NO. FILING DATE F		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/009,800		12/13/2001	Raif Strumpler	004501-631	1087	
21839	7590	07/08/2003		EXAMINER		
		CKER & MATH	TIBBITS, PIA FLORENCE			
POST OFFICE ALEXANDRIA				ART UNIT	PAPER NUMBER	
UNITED STAT	ES			2838		
				DATE MAILED, 02/09/2002		

# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Appli	ication No.	Applicant(s)
Notice of Allowability	10/00 Exan	99,800	STRUMPLER, RALF Art Unit
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The MAILING DATE of this communicate All claims being allowable. PROSECUTION ON THE ME herewith (or previously mailed), a Notice of Allowance (P NOTICE OF ALLOWABILITY IS NOT A GRANT OF PA of the Office or upon petition by the applicant. See 37 C	ERITS IS (OR R PTOL-85) or othe T <b>ENT RIGHTS</b>	EMAINS) CLOSED er appropriate com . This application i	o in this application. If not included munication will be mailed in due course. <b>THIS</b>
<ol> <li>This communication is responsive to the amendmental translation.</li> <li>The allowed claim(s) is/are 22-39.</li> <li>The drawings filed on are accepted by the december of the priority documental translation.</li> <li>All b) ☐ Some* c) ☐ None of the priority documental copies of</li></ol>	Examiner. riority under 35 : ents have been ents have been riority documen 7.2(a)). priority under 39 visional applicat	U.S.C. § 119(a)-(d received. received in Applica ts have been recei 5 U.S.C. § 119(e) ( tion has been rece	etion No  ved in this national stage application from the  to a provisional application).  ived.
Applicant has THREE MONTHS FROM THE "MAILING below. Failure to timely comply will result in ABANDON!  7.  A SUBSTITUTE OATH OR DECLARATION must INFORMAL PATENT APPLICATION (PTO-152) which gives the process of the pro	MENT of this ap	Note the attached	EXAMINER'S AMENDMENT OF NOTICE OF
8. CORRECTED DRAWINGS must be submitted.  (a) including changes required by the Notice of  1) hereto or 2) to Paper No.  (b) including changes required by the proposed  (c) including changes required by the attached lighter including indicia such as the application number (see of each sheet. The drawings should be filed as a separate content of the content of t	drawing correct Examiner's Ame	cion filed, vendment / Comments	which has been approved by the Examiner.  In or in the Office action of Paper No. 6.  In the drawings in the top margin (not the back)
9. DEPOSIT OF and/or INFORMATION about to attached Examiner's comment regarding REQUIREMENT	the deposit of NT FOR THE DE	BIOLOGICAL MA	ATERIAL must be submitted. Note the oGICAL MATERIAL.
Attachment(s)  1⊠ Notice of References Cited (PTO-892)  3□ Notice of Draftperson's Patent Drawing Review (PT  5⊠ Information Disclosure Statements (PTO-1449), Pa  7□ Examiner's Comment Regarding Requirement for Disclosure Biological Material	per No. <u>2</u> .	4∐ Inter 6⊠ Exan 8⊠ Exan	e of Informal Patent Application (PTO-152) view Summary (PTO-413), Paper No niner's Amendment/Comment niner's Statement of Reasons for Allowance or See Continuation Sheet.

# Continuation Sheet (PTO-37)

Application No. 10/009,800

Continuation of Attachment(s) 9. Other: marked copies of figures 1,2, 4, and 5.

Application/Control Number: 10/009,800

Art Unit: 2838

Page 2

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#### **DETAILED ACTION**

This is in answer to the amendment filed June 26, 2003

#### **EXAMINER'S AMENDMENT**

- An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Dave Ream at 703/299-6882 on April 27, 2000.
- 3. The application has been amended as follows:

### In the drawings:

New formal drawings to be submitted showing the conventional names, as described in the specification, for the elements shown in figures 1, 2, 4 and 5 with non-conventional symbols (marked copies attached).

## In the specification:

on page 16, line 22: ---a timer circuit--- to replace "a timer circuit 8".

## In the claims:

Claim 22: in line 4, ---a current--- to replace "the current".

in line 5, --- current signals--- to replace "the current signals".

Claim 30: in line 5, ---an evaluation--- to replace "the evaluation".

#### Allowable Subject Matter

- 4. Claims 22-39 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

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In the examiner's opinion, it would not have been obvious to a person of ordinary skill in the art to provide an electrical switching device comprising, inter alia, a microrelay switch which is arranged in a current path and has microrelay cells connected in series as a voltage divider and connected in parallel as a current divider, having a current sensor which detects a current flowing in the current path; an evaluation device for receiving and evaluating current signals detected by the current sensor and for forming a tripping signal, which acts on the microrelay switch, if the current being carried in the current path exceeds a threshold value; and a short -circuit current limiter arranged in the current path such that the short -circuit current limiter is connected in series with the microrelay switch; wherein the switching device is designed such that the microrelay switch opens in response to the tripping signal from the evaluation device in the event of small overcurrents greater than the threshold value, and, in the event of large overcurrents, the short-circuit current limiter limits these overcurrents to currents which can be interrupted by the microrelay switch. As noted here, and as described in the specification, the claimed invention recites a combination of a microrelay switch for switching off small overcurrents, and a shortcircuit current limiter, for example a fuse link, a power breaker, or a PTC thermistor, for limiting or switching of large overcurrents, as well as provides a small and lightweight electromechanical system. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Pia Tibbits whose telephone number is (703) 308-7305.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 305-0956.

wi Aus

**PFT** 

July 1, 2003